

**MSU Weed Science Research Program**

WEED CONTROL IN CORN WITH STEADFAST Q, RESOLVE Q, AND REQUIRE Q, 2008

Trial ID: C0108  
 Conducted: CAMPUS

Study Dir.:  
 Investigator: Wesley Everman

**Date Planted:** 5/5/08                      **Row Spacing:** 30 IN  
**Variety:** Pioneer 37Y14                      **No. of Reps:** 3  
**Population:** 30,000 S/A                      **% OM:** 3.4  
**Soil Type:** Clay Loam                      **pH:** 6.6  
**Plot Size:** 10 X 35 FT                      **Design:** RANDOMIZED COMPLETE BLOCK

**Tillage:** Fall Chisel, Spring Field Cultivation X2  
**Fertilizer:** 300lbs/A 46-0-0 Broadcast. 125lbs/A 19-19-19 In Row at Planting

**Crop and Weed Description**

| Weed | Code  | Common Name          | Scientific Name             |
|------|-------|----------------------|-----------------------------|
| 1.   | ANGR  | Annual Grass         |                             |
| 2.   | CHEAL | Common lambsquarters | Chenopodium album L.        |
| 3.   | AMARE | PIGWEEED, REDROOT    | AMARANTHUS RETROFLEXUS L.   |
| 4.   | AMBEL | RAGWEEED, COMMON     | AMBROSIA ELATIOR L.         |
| 5.   | ABUTH | VELVETLEAF           | ABUTILON THEOPHRASTI MEDIK. |
| Crop | Code  | Common Name          |                             |
| 1.   | ZEAMX | CORN, FIELD          |                             |

**Application Description**

|                              | A        | B        |
|------------------------------|----------|----------|
| <b>Application Timing:</b>   | PRE      | POST     |
| <b>Date Treated:</b>         | 5/5/08   | 6/5/08   |
| <b>Time Treated:</b>         | 11:45 AM | 5:30 PM  |
| <b>% Cloud Cover:</b>        | 100      | 90       |
| <b>Air Temp., Unit:</b>      | 65 F     | 90 F     |
| <b>% Relative Humidity:</b>  | 24       | 64       |
| <b>Wind Speed/Unit/Dir:</b>  | 7 mph SW | 7 mph SW |
| <b>Soil Temp., Unit:</b>     | 59 F     | 71 F     |
| <b>Soil/Leaf Surface M:</b>  | 5 5      | 5 5      |
| <b>Soil Moist (1=w 5=d):</b> | 4        | 4        |

**Crop Stage at Each Application**

|                      | A         | B     |
|----------------------|-----------|-------|
| <b>Crop Name:</b>    | ZEAMX     | ZEAMX |
| <b>Height (In.):</b> | 4-8(6)    |       |
| <b>Stage (L):</b>    | V3-4(4)5L |       |

**Weed Stage at Each Application**

|                      | A       | B     |
|----------------------|---------|-------|
| <b>Weed 1 Name:</b>  | ANGR    | ANGR  |
| <b>Height (In.):</b> | 1-5(4)  |       |
| <b>Stage (L):</b>    | 3-6(5)  |       |
| <b>Weed 2 Name:</b>  | CHEAL   | CHEAL |
| <b>Height (In.):</b> | .5-4(3) |       |
| <b>Stage (L):</b>    | 4-8(6)  |       |
| <b>Weed 3 Name:</b>  | AMARE   | AMARE |
| <b>Height (In.):</b> | .5-2(1) |       |
| <b>Stage (L):</b>    | 4-6(6)  |       |
| <b>Weed 4 Name:</b>  | AMBEL   | AMBEL |
| <b>Height (In.):</b> | .5-3(2) |       |
| <b>Stage (L):</b>    | 1-6(4)  |       |
| <b>Weed 5 Name:</b>  | ABUTH   | ABUTH |
| <b>Height (In.):</b> | 1-3(2)  |       |
| <b>Stage (L):</b>    | 2-3(3)  |       |

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Weed Density (plants/sq. ft.)

|            | 1      | 2      |
|------------|--------|--------|
| Date:      | 5/5/08 | 6/5/08 |
| Weed Name: | ANGR   | ANGR   |
| Density:   | 22     |        |
| Date:      | 5/5/08 | 6/5/08 |
| Weed Name: | CHEAL  | CHEAL  |
| Density:   | 28     |        |
| Date:      | 5/5/08 | 6/5/08 |
| Weed Name: | AMARE  | AMARE  |
| Density:   | 1      |        |
| Date:      | 5/5/08 | 6/5/08 |
| Weed Name: | AMBEL  | AMBEL  |
| Density:   | 7      |        |
| Date:      | 5/5/08 | 6/5/08 |
| Weed Name: | ABUTH  | ABUTH  |
| Density:   | 1      |        |

Application Equipment

| Appl | Sprayer | Speed | Nozzle | Nozzle | Nozzle | Nozzle  | Boom  |     |         |     |
|------|---------|-------|--------|--------|--------|---------|-------|-----|---------|-----|
|      | Type    | MPH   | Type   | Size   | Height | Spacing | Width | GPA | Carrier | PSI |
| A    | CUB     | 3.5   | FF     | 8003   | 18"    | 20"     | 100"  | 20  | H2O     | 30  |
| B    | CUB     | 3.5   | FF     | 8003   | 23"    | 20"     | 100"  | 20  | H2O     | 30  |

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| Weed Code         |                  |           |           |       |           |          | anгр    | cheal   | amare   | ambel   |         |         |
|-------------------|------------------|-----------|-----------|-------|-----------|----------|---------|---------|---------|---------|---------|---------|
| Crop Code         |                  |           |           |       |           |          | ZEAMX   | ZEAMX   |         |         |         |         |
| Rating Data Type  |                  |           |           |       |           |          | injury  | injury  | control | control | control | control |
| Rating Unit       |                  |           |           |       |           |          | percent | percent | percent | percent | percent | percent |
| Rating Date       |                  |           |           |       |           |          | 6/12/08 | 6/19/08 | 6/19/08 | 6/19/08 | 6/19/08 | 6/19/08 |
| Trt-Eval Interval |                  |           |           |       |           |          | 7 dapo  | 14 DAPO | 14 DAPO | 14 DAPO | 14 DAPO | 14 DAPO |
| Trt No.           | Treatment Name   | Form Conc | Form Type | Rate  | Rate Unit | Grow Stg | 1       | 2       | 3       | 4       | 5       | 6       |
| 1                 | Resolve          | 25        | DF        | 0.188 | oz ai/a   | POST     | 6       | 0       | 99      | 100     | 100     | 97      |
| 1                 | Accent           | 75        | DF        | 0.375 | oz ai/a   | POST     |         |         |         |         |         |         |
| 1                 | Isoxadifen-Ethyl | 50        | DF        | 0.125 | oz ai/a   | POST     |         |         |         |         |         |         |
| 1                 | Impact           | 2.8       | SC        | 0.175 | oz ai/a   | POST     |         |         |         |         |         |         |
| 1                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 1                 | MSO              |           | L         | 1     | % v/v     | POST     |         |         |         |         |         |         |
| 1                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | Cinch ATZ        | 5.5       | L         | 1     | qt/a      | PRE      | 4       | 0       | 99      | 100     | 100     | 97      |
| 2                 | Resolve          | 25        | DF        | 0.188 | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | Accent           | 75        | DF        | 0.375 | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | Isoxadifen-Ethyl | 50        | DF        | 0.125 | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | Impact           | 2.8       | SC        | 0.175 | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | MSO              |           | L         | 1     | % v/v     | POST     |         |         |         |         |         |         |
| 2                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 3                 | Resolve          | 25        | DF        | 0.188 | oz ai/a   | POST     | 7       | 0       | 98      | 100     | 100     | 99      |
| 3                 | Accent           | 75        | DF        | 0.375 | oz ai/a   | POST     |         |         |         |         |         |         |
| 3                 | Isoxadifen-Ethyl | 50        | DF        | 0.125 | oz ai/a   | POST     |         |         |         |         |         |         |
| 3                 | Status           | 56        | DF        | 2.5   | oz/a      | POST     |         |         |         |         |         |         |
| 3                 | Atrazine 90 DF   | 90        | DF        | 12    | oz ai/a   | POST     |         |         |         |         |         |         |
| 3                 | MSO              |           | L         | 1     | % v/v     | POST     |         |         |         |         |         |         |
| 3                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 4                 | Resolve          | 25        | DF        | 0.229 | oz ai/a   | POST     | 4       | 0       | 99      | 100     | 100     | 98      |
| 4                 | Harmony GT 50 SG | 50        | SG        | 0.05  | oz ai/a   | POST     |         |         |         |         |         |         |
| 4                 | Isoxadifen-Ethyl | 50        | DF        | 0.115 | oz ai/a   | POST     |         |         |         |         |         |         |
| 4                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 4                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |
| 4                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 5                 | Cinch ATZ        | 5.5       | L         | 1     | qt/a      | PRE      | 3       | 0       | 100     | 100     | 100     | 96      |
| 5                 | Resolve          | 25        | DF        | 0.229 | oz ai/a   | POST     |         |         |         |         |         |         |
| 5                 | Harmony GT 50 SG | 50        | SG        | 0.05  | oz ai/a   | POST     |         |         |         |         |         |         |
| 5                 | Isoxadifen-Ethyl | 50        | DF        | 0.115 | oz ai/a   | POST     |         |         |         |         |         |         |
| 5                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 5                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |
| 5                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 6                 | Resolve          | 25        | DF        | 0.25  | oz ai/a   | POST     | 6       | 0       | 100     | 100     | 100     | 99      |
| 6                 | Banvel           | 70        | DF        | 1.925 | oz ai/a   | POST     |         |         |         |         |         |         |
| 6                 | Isoxadifen-Ethyl | 50        | DF        | 0.125 | oz ai/a   | POST     |         |         |         |         |         |         |
| 6                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 6                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |
| 6                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 7                 | Cinch ATZ        | 5.5       | L         | 1     | qt/a      | PRE      | 5       | 0       | 100     | 100     | 100     | 100     |
| 7                 | Resolve          | 25        | DF        | 0.25  | oz ai/a   | POST     |         |         |         |         |         |         |
| 7                 | Banvel           | 70        | DF        | 1.925 | oz ai/a   | POST     |         |         |         |         |         |         |
| 7                 | Isoxadifen-Ethyl | 50        | DF        | 0.125 | oz ai/a   | POST     |         |         |         |         |         |         |
| 7                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 7                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |
| 7                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |

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|--------------------|------------------|-----------|-----------|-------|-----------|----------|---------|---------|---------|---------|------|------|
| Crop Code          |                  |           |           |       |           |          | ZEAMX   | ZEAMX   |         |         |      |      |
| Rating Data Type   |                  |           |           |       |           |          | injury  | injury  | control | control |      |      |
| Rating Unit        |                  |           |           |       |           |          | percent | percent | percent | percent |      |      |
| Rating Date        |                  |           |           |       |           |          | 6/12/08 | 6/19/08 | 6/19/08 | 6/19/08 |      |      |
| Trt-Eval Interval  |                  |           |           |       |           |          | 7 dapo  | 14 DAPO | 14 DAPO | 14 DAPO |      |      |
| Trt No.            | Treatment Name   | Form Conc | Form Type | Rate  | Rate Unit | Grow Stg | 1       | 2       | 3       | 4       | 5    | 6    |
| 8                  | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     | 0       | 0       | 74      | 73      | 82   | 79   |
| 8                  | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |      |      |
| 9                  | Cinch ATZ        | 5.5       | L         | 1     | qt/a      | PRE      | 3       | 0       | 98      | 100     | 100  | 84   |
| 9                  | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |      |      |
| 9                  | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |      |      |
| 10                 | Resolve          | 25        | DF        | 0.375 | oz ai/a   | PRE      | 2       | 0       | 96      | 100     | 100  | 98   |
| 10                 | Balance Pro      | 4         | SC        | 0.75  | oz ai/a   | PRE      |         |         |         |         |      |      |
| 10                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |      |      |
| 10                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |      |      |
| 11                 | Resolve          | 25        | DF        | 0.375 | oz ai/a   | PRE      | 5       | 0       | 99      | 100     | 100  | 100  |
| 11                 | Balance Pro      | 4         | SC        | 0.75  | oz ai/a   | PRE      |         |         |         |         |      |      |
| 11                 | Resolve          | 25        | DF        | 0.229 | oz ai/a   | POST     |         |         |         |         |      |      |
| 11                 | Harmony GT 50 SG | 50        | SG        | 0.05  | oz ai/a   | POST     |         |         |         |         |      |      |
| 11                 | Isoxadifen-Ethyl | 50        | DF        | 0.115 | oz ai/a   | POST     |         |         |         |         |      |      |
| 11                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |      |      |
| 11                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |      |      |
| 11                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |      |      |
| 12                 | Non-Treated      |           |           |       |           |          | 0       | 0       | 0       | 0       | 0    | 0    |
| LSD (P=.05)        |                  |           |           |       |           |          | 3.8     | 0.0     | 4.7     | 2.3     | 3.7  | 4.4  |
| Standard Deviation |                  |           |           |       |           |          | 2.3     | 0.0     | 2.8     | 1.3     | 2.2  | 2.6  |
| CV                 |                  |           |           |       |           |          | 59.62   | 0.0     | 3.11    | 1.49    | 2.45 | 2.99 |

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| Weed Code         |                  |           |           |       |           |          | abuth   |         | angr    | cheal   | amare   | ambel   |
|-------------------|------------------|-----------|-----------|-------|-----------|----------|---------|---------|---------|---------|---------|---------|
| Crop Code         |                  |           |           |       |           |          |         | ZEAMX   |         |         |         |         |
| Rating Data Type  |                  |           |           |       |           |          | control | injury  | control | control | control | control |
| Rating Unit       |                  |           |           |       |           |          | percent | percent | percent | percent | percent | percent |
| Rating Date       |                  |           |           |       |           |          | 6/19/08 | 7/1/08  | 7/1/08  | 7/1/08  | 7/1/08  | 7/1/08  |
| Trt-Eval Interval |                  |           |           |       |           |          | 14 DAPO | 26 DAPO | 26 DAPO | 26 DAPO | 26 DAPO | 26 DAPO |
| Trt No.           | Treatment Name   | Form Conc | Form Type | Rate  | Rate Unit | Grow Stg | 7       | 8       | 9       | 10      | 11      | 12      |
| 1                 | Resolve          | 25        | DF        | 0.188 | oz ai/a   | POST     | 100     | 0       | 93      | 99      | 98      | 91      |
| 1                 | Accent           | 75        | DF        | 0.375 | oz ai/a   | POST     |         |         |         |         |         |         |
| 1                 | Isoxadifen-Ethyl | 50        | DF        | 0.125 | oz ai/a   | POST     |         |         |         |         |         |         |
| 1                 | Impact           | 2.8       | SC        | 0.175 | oz ai/a   | POST     |         |         |         |         |         |         |
| 1                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 1                 | MSO              |           | L         | 1     | % v/v     | POST     |         |         |         |         |         |         |
| 1                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | Cinch ATZ        | 5.5       | L         | 1     | qt/a      | PRE      | 100     | 0       | 93      | 98      | 98      | 89      |
| 2                 | Resolve          | 25        | DF        | 0.188 | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | Accent           | 75        | DF        | 0.375 | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | Isoxadifen-Ethyl | 50        | DF        | 0.125 | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | Impact           | 2.8       | SC        | 0.175 | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 2                 | MSO              |           | L         | 1     | % v/v     | POST     |         |         |         |         |         |         |
| 2                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 3                 | Resolve          | 25        | DF        | 0.188 | oz ai/a   | POST     | 100     | 0       | 94      | 99      | 100     | 92      |
| 3                 | Accent           | 75        | DF        | 0.375 | oz ai/a   | POST     |         |         |         |         |         |         |
| 3                 | Isoxadifen-Ethyl | 50        | DF        | 0.125 | oz ai/a   | POST     |         |         |         |         |         |         |
| 3                 | Status           | 56        | DF        | 2.5   | oz/a      | POST     |         |         |         |         |         |         |
| 3                 | Atrazine 90 DF   | 90        | DF        | 12    | oz ai/a   | POST     |         |         |         |         |         |         |
| 3                 | MSO              |           | L         | 1     | % v/v     | POST     |         |         |         |         |         |         |
| 3                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 4                 | Resolve          | 25        | DF        | 0.229 | oz ai/a   | POST     | 100     | 0       | 90      | 98      | 100     | 92      |
| 4                 | Harmony GT 50 SG | 50        | SG        | 0.05  | oz ai/a   | POST     |         |         |         |         |         |         |
| 4                 | Isoxadifen-Ethyl | 50        | DF        | 0.115 | oz ai/a   | POST     |         |         |         |         |         |         |
| 4                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 4                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |
| 4                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 5                 | Cinch ATZ        | 5.5       | L         | 1     | qt/a      | PRE      | 100     | 0       | 97      | 98      | 100     | 92      |
| 5                 | Resolve          | 25        | DF        | 0.229 | oz ai/a   | POST     |         |         |         |         |         |         |
| 5                 | Harmony GT 50 SG | 50        | SG        | 0.05  | oz ai/a   | POST     |         |         |         |         |         |         |
| 5                 | Isoxadifen-Ethyl | 50        | DF        | 0.115 | oz ai/a   | POST     |         |         |         |         |         |         |
| 5                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 5                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |
| 5                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 6                 | Resolve          | 25        | DF        | 0.25  | oz ai/a   | POST     | 99      | 1       | 94      | 100     | 100     | 95      |
| 6                 | Banvel           | 70        | DF        | 1.925 | oz ai/a   | POST     |         |         |         |         |         |         |
| 6                 | Isoxadifen-Ethyl | 50        | DF        | 0.125 | oz ai/a   | POST     |         |         |         |         |         |         |
| 6                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 6                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |
| 6                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 7                 | Cinch ATZ        | 5.5       | L         | 1     | qt/a      | PRE      | 100     | 0       | 96      | 100     | 100     | 94      |
| 7                 | Resolve          | 25        | DF        | 0.25  | oz ai/a   | POST     |         |         |         |         |         |         |
| 7                 | Banvel           | 70        | DF        | 1.925 | oz ai/a   | POST     |         |         |         |         |         |         |
| 7                 | Isoxadifen-Ethyl | 50        | DF        | 0.125 | oz ai/a   | POST     |         |         |         |         |         |         |
| 7                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 7                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |
| 7                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |

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Study Dir.:  
 Investigator: Wesley Everman

| Weed Code          |                  |           |           |       |           |          | abuth   |         | angr    | cheal   | amare   | ambel   |
|--------------------|------------------|-----------|-----------|-------|-----------|----------|---------|---------|---------|---------|---------|---------|
| Crop Code          |                  |           |           |       |           |          | control | ZEAMX   | control | control | control | control |
| Rating Data Type   |                  |           |           |       |           |          | percent | injury  | percent | percent | percent | percent |
| Rating Unit        |                  |           |           |       |           |          | 6/19/08 | 7/1/08  | 7/1/08  | 7/1/08  | 7/1/08  | 7/1/08  |
| Rating Date        |                  |           |           |       |           |          | 14 DAPO | 26 DAPO | 26 DAPO | 26 DAPO | 26 DAPO | 26 DAPO |
| Trt-Eval Interval  |                  |           |           |       |           |          | 14 DAPO | 26 DAPO | 26 DAPO | 26 DAPO | 26 DAPO | 26 DAPO |
| Trt No.            | Treatment Name   | Form Conc | Form Type | Rate  | Rate Unit | Grow Stg | 7       | 8       | 9       | 10      | 11      | 12      |
| 8                  | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     | 85      | 0       | 72      | 72      | 68      | 70      |
| 8                  | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 9                  | Cinch ATZ        | 5.5       | L         | 1     | qt/a      | PRE      | 88      | 0       | 89      | 94      | 82      | 77      |
| 9                  | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |
| 9                  | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 10                 | Resolve          | 25        | DF        | 0.375 | oz ai/a   | PRE      | 100     | 0       | 93      | 97      | 100     | 97      |
| 10                 | Balance Pro      | 4         | SC        | 0.75  | oz ai/a   | PRE      |         |         |         |         |         |         |
| 10                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |
| 10                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 11                 | Resolve          | 25        | DF        | 0.375 | oz ai/a   | PRE      | 100     | 0       | 95      | 100     | 99      | 98      |
| 11                 | Balance Pro      | 4         | SC        | 0.75  | oz ai/a   | PRE      |         |         |         |         |         |         |
| 11                 | Resolve          | 25        | DF        | 0.229 | oz ai/a   | POST     |         |         |         |         |         |         |
| 11                 | Harmony GT 50 SG | 50        | SG        | 0.05  | oz ai/a   | POST     |         |         |         |         |         |         |
| 11                 | Isoxadifen-Ethyl | 50        | DF        | 0.115 | oz ai/a   | POST     |         |         |         |         |         |         |
| 11                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |
| 11                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |
| 11                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |
| 12                 | Non-Treated      |           |           |       |           |          | 0       | 0       | 0       | 0       | 0       | 0       |
| LSD (P=.05)        |                  |           |           |       |           |          | 5.2     | 0.8     | 4.5     | 3.2     | 4.4     | 6.0     |
| Standard Deviation |                  |           |           |       |           |          | 3.1     | 0.5     | 2.7     | 1.9     | 2.6     | 3.5     |
| CV                 |                  |           |           |       |           |          | 3.46    | 600.0   | 3.17    | 2.16    | 2.97    | 4.29    |

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH STEADFAST Q, RESOLVE Q, AND REQUIRE Q, 2008

Trial ID: C0108  
 Conducted: CAMPUS

Study Dir.:  
 Investigator: Wesley Everman

|     |                  |      |      |       |         |      | abuth   | angr    | cheal   | amare   | ambel   | abuth   |         |
|-----|------------------|------|------|-------|---------|------|---------|---------|---------|---------|---------|---------|---------|
|     |                  |      |      |       |         |      | control | control | control | control | control | control | control |
|     |                  |      |      |       |         |      | percent | percent | percent | percent | percent | percent | percent |
|     |                  |      |      |       |         |      | 7/1/08  | 8/1/08  | 8/1/08  | 8/1/08  | 8/1/08  | 8/1/08  | 8/1/08  |
|     |                  |      |      |       |         |      | 26 DAPO | 57 DAPO | 57 DAPO | 57 DAPO | 57 DAPO | 57 DAPO | 57 DAPO |
| Trt | Treatment        | Form | Form | Rate  | Grow    | Stg  | 13      | 14      | 15      | 16      | 17      | 18      |         |
| No. | Name             | Conc | Type | Unit  |         |      |         |         |         |         |         |         |         |
| 1   | Resolve          | 25   | DF   | 0.188 | oz ai/a | POST | 98      | 88      | 98      | 97      | 90      | 92      |         |
| 1   | Accent           | 75   | DF   | 0.375 | oz ai/a | POST |         |         |         |         |         |         |         |
| 1   | Isoxadifen-Ethyl | 50   | DF   | 0.125 | oz ai/a | POST |         |         |         |         |         |         |         |
| 1   | Impact           | 2.8  | SC   | 0.175 | oz ai/a | POST |         |         |         |         |         |         |         |
| 1   | Atrazine 90 DF   | 90   | DF   | 8     | oz ai/a | POST |         |         |         |         |         |         |         |
| 1   | MSO              |      | L    | 1     | % v/v   | POST |         |         |         |         |         |         |         |
| 1   | Ammonium Sulfate | 100  | DF   | 32    | oz ai/a | POST |         |         |         |         |         |         |         |
| 2   | Cinch ATZ        | 5.5  | L    | 1     | qt/a    | PRE  | 100     | 82      | 97      | 95      | 88      | 100     |         |
| 2   | Resolve          | 25   | DF   | 0.188 | oz ai/a | POST |         |         |         |         |         |         |         |
| 2   | Accent           | 75   | DF   | 0.375 | oz ai/a | POST |         |         |         |         |         |         |         |
| 2   | Isoxadifen-Ethyl | 50   | DF   | 0.125 | oz ai/a | POST |         |         |         |         |         |         |         |
| 2   | Impact           | 2.8  | SC   | 0.175 | oz ai/a | POST |         |         |         |         |         |         |         |
| 2   | Atrazine 90 DF   | 90   | DF   | 8     | oz ai/a | POST |         |         |         |         |         |         |         |
| 2   | MSO              |      | L    | 1     | % v/v   | POST |         |         |         |         |         |         |         |
| 2   | Ammonium Sulfate | 100  | DF   | 32    | oz ai/a | POST |         |         |         |         |         |         |         |
| 3   | Resolve          | 25   | DF   | 0.188 | oz ai/a | POST | 100     | 86      | 100     | 98      | 86      | 97      |         |
| 3   | Accent           | 75   | DF   | 0.375 | oz ai/a | POST |         |         |         |         |         |         |         |
| 3   | Isoxadifen-Ethyl | 50   | DF   | 0.125 | oz ai/a | POST |         |         |         |         |         |         |         |
| 3   | Status           | 56   | DF   | 2.5   | oz/a    | POST |         |         |         |         |         |         |         |
| 3   | Atrazine 90 DF   | 90   | DF   | 12    | oz ai/a | POST |         |         |         |         |         |         |         |
| 3   | MSO              |      | L    | 1     | % v/v   | POST |         |         |         |         |         |         |         |
| 3   | Ammonium Sulfate | 100  | DF   | 32    | oz ai/a | POST |         |         |         |         |         |         |         |
| 4   | Resolve          | 25   | DF   | 0.229 | oz ai/a | POST | 100     | 82      | 93      | 93      | 87      | 93      |         |
| 4   | Harmony GT 50 SG | 50   | SG   | 0.05  | oz ai/a | POST |         |         |         |         |         |         |         |
| 4   | Isoxadifen-Ethyl | 50   | DF   | 0.115 | oz ai/a | POST |         |         |         |         |         |         |         |
| 4   | Atrazine 90 DF   | 90   | DF   | 8     | oz ai/a | POST |         |         |         |         |         |         |         |
| 4   | Roundup PowerMAX | 4.5  | L    | 0.75  | lb ae/a | POST |         |         |         |         |         |         |         |
| 4   | Ammonium Sulfate | 100  | DF   | 32    | oz ai/a | POST |         |         |         |         |         |         |         |
| 5   | Cinch ATZ        | 5.5  | L    | 1     | qt/a    | PRE  | 95      | 90      | 98      | 100     | 87      | 95      |         |
| 5   | Resolve          | 25   | DF   | 0.229 | oz ai/a | POST |         |         |         |         |         |         |         |
| 5   | Harmony GT 50 SG | 50   | SG   | 0.05  | oz ai/a | POST |         |         |         |         |         |         |         |
| 5   | Isoxadifen-Ethyl | 50   | DF   | 0.115 | oz ai/a | POST |         |         |         |         |         |         |         |
| 5   | Atrazine 90 DF   | 90   | DF   | 8     | oz ai/a | POST |         |         |         |         |         |         |         |
| 5   | Roundup PowerMAX | 4.5  | L    | 0.75  | lb ae/a | POST |         |         |         |         |         |         |         |
| 5   | Ammonium Sulfate | 100  | DF   | 32    | oz ai/a | POST |         |         |         |         |         |         |         |
| 6   | Resolve          | 25   | DF   | 0.25  | oz ai/a | POST | 100     | 83      | 98      | 98      | 88      | 98      |         |
| 6   | Banvel           | 70   | DF   | 1.925 | oz ai/a | POST |         |         |         |         |         |         |         |
| 6   | Isoxadifen-Ethyl | 50   | DF   | 0.125 | oz ai/a | POST |         |         |         |         |         |         |         |
| 6   | Atrazine 90 DF   | 90   | DF   | 8     | oz ai/a | POST |         |         |         |         |         |         |         |
| 6   | Roundup PowerMAX | 4.5  | L    | 0.75  | lb ae/a | POST |         |         |         |         |         |         |         |
| 6   | Ammonium Sulfate | 100  | DF   | 32    | oz ai/a | POST |         |         |         |         |         |         |         |
| 7   | Cinch ATZ        | 5.5  | L    | 1     | qt/a    | PRE  | 97      | 90      | 95      | 98      | 93      | 97      |         |
| 7   | Resolve          | 25   | DF   | 0.25  | oz ai/a | POST |         |         |         |         |         |         |         |
| 7   | Banvel           | 70   | DF   | 1.925 | oz ai/a | POST |         |         |         |         |         |         |         |
| 7   | Isoxadifen-Ethyl | 50   | DF   | 0.125 | oz ai/a | POST |         |         |         |         |         |         |         |
| 7   | Atrazine 90 DF   | 90   | DF   | 8     | oz ai/a | POST |         |         |         |         |         |         |         |
| 7   | Roundup PowerMAX | 4.5  | L    | 0.75  | lb ae/a | POST |         |         |         |         |         |         |         |
| 7   | Ammonium Sulfate | 100  | DF   | 32    | oz ai/a | POST |         |         |         |         |         |         |         |

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH STEADFAST Q, RESOLVE Q, AND REQUIRE Q, 2008

Trial ID: C0108  
 Conducted: CAMPUS

Study Dir.:  
 Investigator: Wesley Everman

|                    |                  |           |           |       |           |          | abuth   | angr    | cheal   | amare   | ambel   | abuth   |         |
|--------------------|------------------|-----------|-----------|-------|-----------|----------|---------|---------|---------|---------|---------|---------|---------|
|                    |                  |           |           |       |           |          | control | control | control | control | control | control | control |
|                    |                  |           |           |       |           |          | percent | percent | percent | percent | percent | percent | percent |
|                    |                  |           |           |       |           |          | 7/1/08  | 8/1/08  | 8/1/08  | 8/1/08  | 8/1/08  | 8/1/08  | 8/1/08  |
|                    |                  |           |           |       |           |          | 26 DAPO | 57 DAPO | 57 DAPO | 57 DAPO | 57 DAPO | 57 DAPO | 57 DAPO |
| Trt No.            | Treatment Name   | Form Conc | Form Type | Rate  | Rate Unit | Grow Stg | 13      | 14      | 15      | 16      | 17      | 18      |         |
| 8                  | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     | 75      | 63      | 63      | 58      | 64      | 87      |         |
| 8                  | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |         |
| 9                  | Cinch ATZ        | 5.5       | L         | 1     | qt/a      | PRE      | 76      | 85      | 87      | 93      | 68      | 82      |         |
| 9                  | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |         |
| 9                  | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |         |
| 10                 | Resolve          | 25        | DF        | 0.375 | oz ai/a   | PRE      | 100     | 88      | 98      | 100     | 93      | 100     |         |
| 10                 | Balance Pro      | 4         | SC        | 0.75  | oz ai/a   | PRE      |         |         |         |         |         |         |         |
| 10                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |         |
| 10                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |         |
| 11                 | Resolve          | 25        | DF        | 0.375 | oz ai/a   | PRE      | 99      | 90      | 100     | 100     | 98      | 100     |         |
| 11                 | Balance Pro      | 4         | SC        | 0.75  | oz ai/a   | PRE      |         |         |         |         |         |         |         |
| 11                 | Resolve          | 25        | DF        | 0.229 | oz ai/a   | POST     |         |         |         |         |         |         |         |
| 11                 | Harmony GT 50 SG | 50        | SG        | 0.05  | oz ai/a   | POST     |         |         |         |         |         |         |         |
| 11                 | Isoxadifen-Ethyl | 50        | DF        | 0.115 | oz ai/a   | POST     |         |         |         |         |         |         |         |
| 11                 | Atrazine 90 DF   | 90        | DF        | 8     | oz ai/a   | POST     |         |         |         |         |         |         |         |
| 11                 | Roundup PowerMAX | 4.5       | L         | 0.75  | lb ae/a   | POST     |         |         |         |         |         |         |         |
| 11                 | Ammonium Sulfate | 100       | DF        | 32    | oz ai/a   | POST     |         |         |         |         |         |         |         |
| 12                 | Non-Treated      |           |           |       |           |          | 0       | 0       | 0       | 0       | 0       | 0       |         |
| LSD (P=.05)        |                  |           |           |       |           |          | 7.5     | 11.6    | 7.1     | 9.3     | 9.8     | 11.8    |         |
| Standard Deviation |                  |           |           |       |           |          | 4.5     | 6.9     | 4.2     | 5.5     | 5.8     | 6.9     |         |
| CV                 |                  |           |           |       |           |          | 5.14    | 8.9     | 4.91    | 6.4     | 7.4     | 8.02    |         |